

To: Merritt, Steven[Merritt.Steven@epa.gov]
Cc: Dhieux, Joyel[Dhieux.Joyel@epa.gov]; Gerard, Henry[Gerard.Henry@epa.gov]; Powell, Greg[Powell.Greg@epa.gov]
From: Wendi Scholten
Sent: Tue 8/11/2015 10:45:03 PM
Subject: RE: Hach Kits for Water Analysis- Gold King Mine

Here are the shelf lives for all the items you have requested:

2242500 Chromium - 18 months

TNT852 Cadmium - 1 year

2243100 Lead - includes the following:

1445817- 3 years

1420299- 3 years

1261699- 2 years

245053- 3.5 years

245026- 3.5 years

76714- 5 years

1447624 Arsenic - 4 years

2651700 Manganese, LR - 1 year

Wendi Scholten

Database Manager

G2 Engineering & Management

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From: Merritt, Steven [mailto:Merritt.Steven@epa.gov]
Sent: Tuesday, August 11, 2015 2:03 PM
To: w.scholten@g2em.com
Cc: Dhieux, Joyel; Gerard, Henry; Powell, Greg
Subject: FW: Hach Kits for Water Analysis- Gold King Mine

Wendi,

Here's where you need to ship this stuff. Do what you need to in order to get the DR2800 off to Durango today. If Hach can't get the reagents out today, we need to find another supplier, if that's possible.

Confirm for me that this is what we're trying to order 100 tests of:

| Analyte Range | Part | Method | |
|----------------------------|---------|--|------------------|
| Arsenic mg/L | — | Silver Diethyldithiocarbamate 8013 | 0.020 - 0.200 |
| Chromium, Total 2242500 | | Alkaline Hypobromite Oxidation Method 8024 | 0.01 - 0.70 mg/L |
| Cadmium 0.080 mg/L | 2242200 | Dithizone 8017 | 0.0007 – |
| Lead 0.300 mg/L | 2243100 | Dithizone 8033 | 0.003 – |

Manganese, LR PAN 8149
0.700 mg/L 2651700

0.006 -

Joyel and others, please weigh in on this... I know that spectrometry was less desirable, but we have one of these and it's got a decent throughput.

Steven B. Merritt, CIH

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Merritt.Steven@epa.gov



From: Powell, Greg

Sent: Tuesday, August 11, 2015 11:54 AM

To: Merritt, Steven

Cc: Gerard, Henry; Dhieux, Joyel

Subject: Hach Kits for Water Analysis- Gold King Mine

Greetings:

Trying to see if we can utilize Hach water analysis kits for surface and ground water sampling here at the Gold King Mine site release. Hach kits are regularly used for water treatment confirmatory sampling. I propose that ten percent of the samples be sent to a lab for confirmation analysis.

We will need to have kits for high, medium and low concentration ranges. I suggest that someone talk to the health people for levels of concern for drinking water, livestock and direct contact numbers.

Attached is some information for Pb, As and Cr. Probably should add Cadmium and Manganese. The key is for ease of use in the field. I do not think we should utilize spectrophotometers. Let me know what you think.

Address:

La Plata County Fairgrounds

2500 Main Ave

Durango, Colorado 81301

Henry cell:(702)501-8036

Steve (303)927-3501

Greg Powell

USEPA-Environmental Response Team

(513)569-7533 office

(513)607-1572 cell

Facts do not cease to exist because they are ignored.

